J Plant Growth Regul (2002) 20:447–448
DOI: 10.1007/s00344-002-0001-8

JPGR
Journal of Plant Growth Regulation

© 2002 Springer-Verlag

# Author Index for Volume 20, 2001–2002

Allen, T., see Parry, G., et al. . . . . 217
Aloni, R.: Foliar and Axial Aspects of Vascular Differentiation: Hypotheses and Evidence . . . . . 22
Åström, H., see Raudaskoski, M., et al. . . . . 113
Baluška, F., Volkmann, D., Barlow, P. W.: A Polarity Crossroad in the Transition Growth Zone of Maize Root Apices: Cytoskeletal and Developmental Implications . . . . . 170

Barlow, P. W., see Baluška, F., et al. . . . . 170
Bartel, B., LeClere, S., Magidin, M., Zolman, B. K.: Inputs to the Active Indole-3-Acetic Acid Pool: *De Novo* Synthesis, Conjugate Hydrolysis, and Indole-3-Butyric Acid β-Oxidation . . . . . 198
Bennett, M., see Parry, G., et al. . . . . 217
Beno-Moualem, D., Vinokur, Y., Prusky, D.: Cytokinins Increase Epicatechin Content and Fungal Decay Resistance in Avocado Fruits . . . . . 95
Berleth, T.: Top-Down and Inside-Out: Directionality of Signaling in Vascular and Embryo Development . 14
Blackman, L. M., see Overall, R. L., et al. . . . . 162
Bou, J., see Martínez-García, J. F., et al. . . . . 377
Brown, R. C., Lemmon, B. E.: Phragmoplasts in the Absence of Nuclear Division . . . . . 151

Carrera, E., see Hedden, P., et al. . . . . 319
Chen, J. G.: Dual Auxin Signaling Pathways Control Cell Elongation and Division . . . . . 255
Choudhuri, M. A., see Nag, S., et al. . . . . 182

Davenport, T. L., Pearce, D. W., Rood, S. B.: Correlation of Endogenous Gibberellic Acid with Initiation of Mango Shoot Growth . . . . . 308
Dengler, N. G.: Regulation of Vascular Development. 1
Dibbayawan, T. P., see Overall, R. L., et al. . . . . 162

Elliott, R. C., Ross, J. J., Smith, J. J., Lester, D. R., Reid, J. B.: Feed-Forward Regulation of Gibberellin Deactivation in Pea . . . . . 87
Estelle, M., see Ward, S. P. . . . . 265

Fukuda, H., see Kuriyama, H. . . . . 35

Garciá-Martínez, J. L., Gil, J.: Light Regulation of Gibberellin Biosynthesis and Mode of Action . . . . . 354
García-Martínez, J. L., see Martínez-García, J. F., et al. . . . . 377

Gibbon, B. C.: Actin Monomer-Binding Proteins and the Regulation of Actin Dynamics in Plants . . . . . 103
Gil, J., see Garciá-Martínez, J. L. . . . . 354
Gillaspy, G. E., Gruissem, W.: Li+ Induces Hypertrophy and Down Regulation of *Myo*-Inositol Monophosphatase in Tomato . . . . . 78
Graham, N., see Parry, G., et al. . . . . 217
Gruissem, W., see Gillaspy, G. E. . . . . 78
Guilfoyle, T. J., Hagen, G.: Auxin Response Factors 281

Hagen, G., see Guilfoyle, T. J. . . . . 281
Hamann, T.: The Role of Auxin in Apical-Basal Pattern Formation during *Arabidopsis* Embryogenesis . . . 292
Hedden, P.: Gibberellin Metabolism and Its Regulation . . . . . 1
Hedden, P., Phillips, A. L., Rojas, M. C., Carrera, E., Tudzynski, B.: Gibberellin Biosynthesis in Plants and Fungi: A Case of Convergent Evolution? . . . . . 319

James, N., see Parry, G., et al. . . . . 217
Jones, A. M.: Keeping the Momentum in Auxin Research . . . . . 195

Kamiya, Y., see Yamaguchi, S. . . . . 369
King, G., see Parry, G., et al. . . . . 217
Kuriyama, H., Fukuda, H.: Regulation of Tracheary Element Differentiation . . . . . 35

Laitiainen, E., see Raudaskoski, M., et al. . . . . 113
LeClere, S., see Bartel, B., et al. . . . . 198
Lee, Y. R. J., see Liu, B. . . . . 141
Lemmon, B. E., see Brown, R. C. . . . . 151
Lester, D. R., see Elliott, R. C., et al. . . . . 87
Liu, B., Lee, Y. R. J.: Kinesin-Related Proteins in Plant Cytokinesis . . . . . 141

MacMillan, J.: Occurrence of Gibberellins in Vascular Plants, Fungi, and Bacteria . . . . . 387
Magidin, M., see Bartel, B., et al. . . . . 198
Manning, K., see Parry, G., et al. . . . . 217
Marchant, A., see Parry, G., et al. . . . . 217
Martínez-García, J. F., García-Martínez, J. L., Bou, J., Prat, S.: The Interaction of Gibberellins and Photoperiod in the Control of Potato Tuberization . . . 377
Martucci, T., see Parry, G., et al. . . . . 217
May, S., see Parry, G., et al. . . . . 217
Muday, G. K.: Auxins and Tropisms . . . . . 226

Nag, S., Saha, K., Choudhuri, M. A.: Role of Auxin and Polyamines in Adventitious Root Formation in Relation to Changes in Compounds Involved in Rooting . 182

Napier, R. M.: Models of Auxin Binding . . . . . 244
Napier, R. M., see Parry, G., et al. . . . . 217

O'Neill, D. P., see Ross, J. J., et al. . . . . 346
Outlaw, W. H., Jr., see Zhang, S. Q. . . . . 300
Overall, R. L., Dibbayawan, T. P., Blackman, L. M.: Intercellular Alignments of the Plant Cytoskeleton. 162

Parry, G., Marchant, A., May, S., Swarup, R., Swarup, K., James, N., Graham, N., Allen, T., Martucci, T., Yemm, A., Napier, R. M., Manning, K., King, G., Bennett, M.: Quick on the Uptake: Characterization of a Family of Plant Auxin Influx Carriers . . . . . 217
Pearce, D. W., see Davenport, T. L., et al. . . . . 308
Phillips, A. L., see Hedden, P., et al. . . . . 319
Prat, S., see Martínez-García, J. F., et al. . . . . 377
Prusky, D., see Beno-Moualem, D. et al. . . . . 95

Raudaskoski, M., Åström, H., Laitiainen, E.: Pollen Tube Cytoskeleton: Structure and Function . . . . . 113
Reed, J. W., see Tian, Q. . . . . 274
Reid, J. B., see Elliott, R. C., et al. . . . . 87
Reid, J. B., see Ross, J. J., et al. . . . . 346
Rojas, M. C., see Hedden, P., et al. . . . . 319
Rood, S. B., see Davenport, T. L., et al. . . . . 308
Ross, J. J., O'Neill, D. P., Wolbang, C. M., Symons, G. M., Reid, J. B.: Auxin-Gibberellin Interactions and Their Role in Plant Growth . . . . . 346
Ross, J. J., see Elliott, R. C., et al. . . . . 87

Saha, K., see Nag, S., et al. . . . . 182
Savidge, R. A.: Intrinsic Regulation of Cambial Growth . . . . . 52
Smith, J. J., see Elliott, R. C., et al. . . . . 87
Sponsel, V. M.: The Deoxyxylulose Phosphate Pathway for the Biosynthesis of Plastidic Isoprenoids: Early Days in Our Understanding of the Early Stages of Gibberellin Biosynthesis . . . . . 332
Swarup, K., see Parry, G., et al. . . . . 217
Swarup, R., see Parry, G., et al. . . . . 217
Symons, G. M., see Ross, J. J., et al. . . . . 346
Szymanski, D. B.: *Arabidopsis* Trichome Morphogenesis: A Genetic Approach to Studying Cytoskeletal Function . . . . . 131

Tian, Q., Reed, J. W.: Molecular Links Between Light and Auxin Signaling Pathways . . . . . 274
Tudzynski, B., see Hedden, P., et al. . . . . 319

Vinokur Y., see Beno-Moualem, D. et al. . . . . 95
Volkmann, D., see Baluška, F., et al. . . . . 170

Ward, S. P., Estelle, M.: Auxin Signaling Involves Regulated Protein Degradation by the Ubiquitin-Proteasome Pathway . . . . . 265
Wick, S.: Cytoskeletal Regulation of Plant Growth 101
Wolbang, C. M., see Ross, J. J., et al. . . . . 346

Yamaguchi, S., Kamiya, Y.: Gibberellins and Light-Stimulated Seed Germination . . . . . 369
Yemm, A., see Parry, G., et al. . . . . 217

Zhang, S. Q., Outlaw, W. H., Jr.: Gradual Long-Term Water Stress Results in Abscisic Acid Accumulation in the Guard-Cell Symplast and Guard-Cell Apoplast of Intact *Vicia faba* L. Plants . . . . . 300
Zolman, B. K., see Bartel, B., et al. . . . . 198

Plant Growth Regul (2002) 20:449–451
DOI: 10.1007/s00344-002-0002-7

JPGR
Journal of Plant Growth Regulation

© 2002 Springer-Verlag

# Subject Index to Volume 20, 2001–2002

Abscisic acid . . . . . 300
Actin . . . . . 103, 162
Actin-binding proteins . . . . . 113
Actin-depolymerizing factor . . . . . 103
Adventitious root formation . . . . . 182
Apical-basal patterning . . . . . 292
Apoplast . . . . . 300
*Arabidopsis* . . . . . 131, 217, 292, 369
*Arabidopsis thaliana* . . . . . 22, 319
ARF genes . . . . . 281
ARF proteins . . . . . 281
*ATH1* gene . . . . . 354
AUX1 protein . . . . . 217
Aux/IAA proteins . . . . . 265, 274, 281
Auxin . . . . . 14, 182, 292, 346
Auxin binding protein 1 (ABP1) . . . . . 244, 255
Auxin binding site . . . . . 244
Auxin biosynthesis . . . . . 198
Auxin conjugate hydrolysis . . . . . 198
Auxin receptors . . . . . 244
Auxin response elements . . . . . 281
Auxin response factors (ARF) . . . . . 265, 281
Auxin responsive genes . . . . . 281
Auxin signaling . . . . . 255, 265
Auxin signaling pathway . . . . . 274
Auxin synthesis . . . . . 22
Auxin transport . . . . . 226
Auxin uptake carrier . . . . . 217
Avocado . . . . . 95
AXR1 . . . . . 265

Bacteria . . . . . 387
Benzylaminopurine . . . . . 95
BY-2 cells . . . . . 255

Cambial activity . . . . . 1
Cambial growth . . . . . 52
Cambium sensitivity . . . . . 22
Cell differentiation . . . . . 1, 35, 52
Cell division . . . . . 255
Cell elongation . . . . . 255
Cell enlargement . . . . . 78
Cell growth . . . . . 170
Cell wall . . . . . 162
*Colletotrichum gloeosporioides* . . . . . 95
COP9 signalosome . . . . . 265
*Cucumis sativus* . . . . . 22
Cytoarchitecture . . . . . 170
Cytokinesis . . . . . 141, 151
Cytokinin synthesis . . . . . 22
Cytokinins . . . . . 95
Cytoskeleton . . . . . 103, 113, 131, 162, 170, 226

De-etioloation . . . . . 354
1-Deoxy-D-xylulose 5-phosphate . . . . . 332
Diamine oxidase and polyamine oxidase (DAO/PAO) activities . . . . . 182
Distorted mutants . . . . . 131

Embryo pattern formation . . . . . 14
Embryogenesis . . . . . 292
Endocytosis . . . . . 113
Endosperm . . . . . 151
Epicatechin . . . . . 95
Ethylene response . . . . . 22
Exocytosis . . . . . 113
Expressed sequence tags . . . . . 87

Fatty acid β oxidation . . . . . 198
Feedback . . . . . 87
Feedback regulation . . . . . 346
Feedforward . . . . . 87
Flavonoid biosynthesis . . . . . 95
Flowering . . . . . 377
Fungi . . . . . 387

G-protein . . . . . 255
GA 2-oxidase genes . . . . . 87
GA 3-oxidase genes . . . . . 354, 369
*GA20ox* gene . . . . . 354
*GA30ox* gene . . . . . 354
Gene expression . . . . . 52, 87, 281
Generative cell division . . . . . 113
Germination . . . . . 354
GH3 genes . . . . . 274
*Gibberella fujikuroi* . . . . . 319
Gibberellin acid . . . . . 308
Gibberellin biosynthesis . . . . . 319, 332, 346, 369
Gibberellin deactivation . . . . . 87
Gibberellins . . . . . 308
Gibberellins A1 – A126 . . . . . 387
Glucosinolates . . . . . 198
Gravitropism . . . . . 226
Guard cell . . . . . 300

H2O2 . . . . . 182
Herbicides . . . . . 244

Hormone interactions ..... 346
Hormones ..... 22
Hydathodes ..... 22c
Hypertrophy ..... 78

Indole-3-acetic acid (IAA) ..... 182, 198, 346
Indole-3-butyric acid (IBA) ..... 198
Induced resistance ..... 95
Inositol monophosphatase ..... 78
Inside-out signaling ..... 14
Intercellular alignment ..... 162
Internode elongation ..... 346
Isopentenyl diphosphate ..... 332
Isoprenoid metabolism ..... 332

Kinesin-related proteins ..... 141

Lauraceae ..... 95
LAX protein ..... 217
Leaf conductance ..... 300
Leaf morphogenesis ..... 22
Lettuce ..... 369
Ligand ..... 244
Light ..... 274, 354
Lithium ..... 78

Maize ..... 170
*Mangifera indica* ..... 308
Meristem ..... 1, 14
Mevalonate pathway ..... 332
Microfilaments ..... 113, 131
Microsporogenesis ..... 151
Microtubule-associated proteins ..... 113
Microtubules ..... 113, 131, 141, 151, 162, 170
Molecular models ..... 244
Monomer-binding proteins ..... 103
Morphogenesis ..... 103
Motor protein ..... 141
Mutants ..... 35, 131
*Myo*-inositol monophosphatase ..... 78
*Nicotiana tabacum* ..... 22, 113

Nuclear-cytoplasmic domain ..... 151

Pattern formation ..... 292
Peroxidase activity ..... 182
*Persea americana* ..... 95
Phenol ..... 182
Phloem ..... 1
Phloem development ..... 22
Phloem formation ..... 52
PHOR1 protein ..... #5
Phosphatidylinositol signaling ..... 78
Phosphorylation ..... 226
Photomorphogenesis ..... 354
Photoperiod ..... 354, 377
Phototropism ..... 226
Phragmoplast ..... 141, 151
Phytochrome ..... 274, 354
Phytohormone homeostasis ..... 198
*Pisum sativum* ..... 346
*Pisum sativum* L. mutants ..... 87
Plant peroxisome ..... 198
Plasmodesmata ..... 162
Plastids ..... 332
Polar auxin transport ..... 14
Polarity ..... 170
Pollen tube growth ..... 113
Polyamines ..... 182
Polyphenol oxidase activity ..... 182
Potato ..... 377
Preformed compounds ..... 95
Procambium ..... 1
Profilin ..... 103
Protein degradation ..... 265
Putrescine ..... 182

Radial microtubule system ..... 151
Root apex ..... 170
Root formation ..... 182
Root meristem ..... 14
RUB ..... 265

SCF complex ..... 265
Secondary growth ..... 52
Seed ..... 151
Seed coat ..... 369
Seed germination ..... 369
Shoot growth ..... 308
Shoot meristem ..... 14
Short-day photoperiod ..... 377
Sieve tube element ..... 1
Signal transduction ..... 78
Signal transduction cascade ..... 226
*Solanum tuberosum* ssp. *andigena* ..... 377
Stem elongation ..... 354
Stem tip growth ..... 308
Symplast ..... 300
Syncytium ..... 151

Thidiazuron ..... 95
TIR1 ..... 265
Tomato ..... 369
Tomato seedlings ..... 78
Top-down signaling ..... 14
Tracheary element ..... 1
Tracheary elements ..... 35
Transgenic plants ..... 35
Transition zone cells ..... 170
Trichome ..... 131
Tryptophan ..... 198
Tuberization ..... 354, 377

Ubiquitin ..... 265

Vacuolar biogenesis ..... 113
Vascular cambium ..... 1

Vascular development . . . . . 1, 14, 35
Vascular differentiation . . . . . 22
Vascular pattern formation . . . . . 1, 22, 35
Vascular patterning genes . . . . . 14
Vascular plants . . . . . 387
Venation pattern formation . . . . . 22
*Vicia faba* L. . . . . 300
*Vigna radiata* L. cv. 105 . . . . . 182
Water stress . . . . . 300
Wound response . . . . . 22
Xylem . . . . . 1
Xylem development . . . . . 22
Xylem formation . . . . . 52

*ZWI* gene . . . . . 131